

Sequence Listing

<110> Botstein, David
Goddard, Audrey
Lawrence, David A.
Pennica, Diane
Roy, Margaret A.
Wood, William I.

<120> Cardiotrophin-1 Compositions and Methods for the
Treatment of Tumor

<130> P2533C1

<141> 2000-08-25

<150> US 09/234,730

<151> 1999-01-21

<150> US 09/033,114

<151> 1998-03-02

<150> US 08/733,850

<151> 1996-10-18

<150> US 08/443,129

<151> 1995-05-17

<150> US 08/286,304

<151> 1994-08-05

<150> US 08/233,609

<151> 1994-04-25

<150> US 60/113,296

<151> 1998-12-22

<160> 6

<210> 1

<211> 1539

<212> DNA

<213> Human

<400> 1

gtgaagggag ccgggatcag ccaggggcca gcatgagccg gagggagggg 50

agtctggaag acccccagac tgattcctca gtctcacttc ttccccactt 100

ggaggccaag atccgtcaga cacacagcct tgcgcacctc ctcaccaa 150

acgctgagca gctgctccag gaatatgtgc agctccaggg agacccttc 200

gggctgcccc gcttctcgcc gccgcggctg ccggtggccg gcctgagcgc 250

cccggctccg agccacgcgg ggctgccagt gcacgagcgg ctgcggctgg 300

005230" EBT 24950

64

acgcggcgcc gctggccgcg ctgccccgcg tgctggacgc agtgtgtcgc 350
 cgccaggccg agctgaaccc gcgcgcgcgc cgcttgcgc gccgcctgga 400
 ggacgcggcg cgccaggccc gggccctggg cgccgccgtg gaggccttgc 450
 tggccgcgct gggcgccgcc aaccgcgggc cccgggcca gcccccgcc 500
 gccaccgct cagccgctc cgccaccggg gtcttccccg ccaaggtgct 550
 ggggtccgc gtttgcgcc tctaccgca gtggctgagc cgcaccgagg 600
 gcgacctggg ccagctgctg cccgggggct cggcctgagc gccgcggggc 650
 agctcgcccc gctcctccc gctgggttcc gtctctcctt ccgcttcttt 700
 gtctttctct gccgctgtcg gtgtctgtct gtctgtctt agctgtctcc 750
 attgctcgg ctttctttgc tttttgtggg ggagagggga ggggacgggc 800
 agggctctctg tcgcccaggc tggggtgcag tggcgcgatc ccagcactgc 850
 agcctcaacc tcttgggctc aagccatcct tccgctcag cttccccagc 900
 agctgggact acaggcacgc gccaccacag ccggctaatt tttatttaa 950
 tttttgtag agacgaggtt tcgccatgtt gccaggtcg gtcttgaact 1000
 ccggggctca agcgatcctc ccgcttcagc ctccctaagt gctgggattg 1050
 caggcgtgag ccactttccc agcctctctt tgctttgcct gcccgttct 1100
 cttaactctt ggaccctcct cgtctgcatg gtaactccgt ctgagtctac 1150
 cattttcttg ctctccctcc ttccttgggc ctgcctcagt tccctttggc 1200
 ctccccctt acccagctct tggggtgtct ctgttttttc catccccact 1250
 tctgccttc tcgtggccct gtggtagcac atgtgtacat ctcagcctta 1300
 tctcaaggag gtgacacctt ctctccttgc ccccatctgg ccgtctctct 1350
 gtgcttcctt ggccaggggc gtgcctgctg gtcctatggg gggaaggcta 1400
 ctccgcatct cagccacctt cctcaggctc actccaccta catccccagt 1450
 ctgccacacc ccatccctt gggcctcagc cctgtccctt tgatgtcctc 1500
 ctttccttca gcccctctgc cctgtccctg cacacctcc 1539

<210> 2

<211> 1539

<212> DNA

<213> Human

<400> 2

ggaggtgtgc agggacaggc cagaggggct gaaggaaagg aggacatcaa 50

agggacaggg ctgaggccca aagggatggg gtgtggcaga ctggggatgt 100
 aggtggagtg agcctgagga aggtggctga gatgcggagt agccttcccc 150
 ccataggacc agcaggcacg cccctggcca gggaagcaca gagagacggc 200
 cagatgggga caaggagaga aggtgtcacc tccttgagat aaggctgaga 250
 tgtacacatg tgctaccaca gggccacgag aaggcaggaa gtggggatgg 300
 aaaaaacaga gacaccccaa gagctgggta aagggggagg ccaaaggga 350
 ctgaggcagg cccaaggaag gagggagagc aagaaaatgg tagactcaga 400
 cggagttacc atgcagacga ggagggtcca agagttaaga gaacggggca 450
 ggcaaagcaa agagaggctg ggaaagtggc tcacgcctgc aatcccagca 500
 cttagggagg ctgaagcggg aggatcgctt gagccccgga gttcaagacc 550
 agcctgggca acatggcgaa acctcgtctc tacaaaaaat taaataaaaa 600
 attagccggc tgtggtggcg cgtgcctgta gtcccagctg ctggggaagc 650
 tgaggcggaa ggatggcttg agcccaggag gttgaggctg cagtgcctgg 700
 atcgcgccac tgcacccag cctgggcgac agagaccctg cccgtccct 750
 cccctctccc ccacaaaaag caaagaaggc cgaggcaatg gagacagcta 800
 agagcagaca gacagacacc gacagcggca gagaaagaca aagaagcgg 850
 aggagagacg gaaccacgcg ggaggaggcg gggcgagctg ccccgcgcg 900
 ctcaggccga gccccgggc agcagctggc ccaggtcgcc ctcggtgcgg 950
 ctcagccact cgcggtagag gccgcaaacg cggagcccca gcaccttggc 1000
 ggggaagacc ccggtggcgg aggcggctga ggcggtggcg gcggggggct 1050
 cggcccgggg cccgcggttg gcggcgccca gcgcggccag caaggcctcc 1100
 acggcgggcg ccaggggccc ggctggcg gcgcgctcct ccaggcgggc 1150
 cagcaggcg gcgcgcgcg ggttcagctc ggctggcg cgacacactg 1200
 cgtccagcag cgggggcagc gcggccagcg ccgccgcgtc cagccgcagc 1250
 cgctcgtgca ctggcagccc cgcgtggctc ggagccgggg cgctcaggcc 1300
 ggccaccggc agccgcggcg gcgagaagct ggcagcccg aaggggtctc 1350
 cctggagctg cacatattcc tggagcagct gctcagcgta tttggtgagg 1400
 aggtgcgcaa ggctgtgtgt ctgacggatc ttggcctcca agtggggaag 1450

aagtgagact gaggaatcag tctgggggtc ttccagactt ccctccctcc 1500

ggctcatgct ggcccctggc tgatcccggc tcccttcac 1539

<210> 3

<211> 201

<212> PRT

<213> Human

<400> 3

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Arg | Arg | Glu | Gly | Ser | Leu | Glu | Asp | Pro | Gln | Thr | Asp | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Ser | Leu | Leu | Pro | His | Leu | Glu | Ala | Lys | Ile | Arg | Gln | Thr |
| | | | | 20 | | | | | 25 | | | | | 30 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Leu | Ala | His | Leu | Leu | Thr | Lys | Tyr | Ala | Glu | Gln | Leu | Leu |
| | | | | 35 | | | | | 40 | | | | | 45 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Glu | Tyr | Val | Gln | Leu | Gln | Gly | Asp | Pro | Phe | Gly | Leu | Pro | Ser |
| | | | | 50 | | | | | 55 | | | | | 60 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Pro | Pro | Arg | Leu | Pro | Val | Ala | Gly | Leu | Ser | Ala | Pro | Ala |
| | | | | 65 | | | | | 70 | | | | | 75 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | His | Ala | Gly | Leu | Pro | Val | His | Glu | Arg | Leu | Arg | Leu | Asp |
| | | | | 80 | | | | | 85 | | | | | 90 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Ala | Leu | Ala | Ala | Leu | Pro | Pro | Leu | Leu | Asp | Ala | Val | Cys |
| | | | | 95 | | | | | 100 | | | | | 105 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Gln | Ala | Glu | Leu | Asn | Pro | Arg | Ala | Pro | Arg | Leu | Leu | Arg |
| | | | | 110 | | | | | 115 | | | | | 120 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Glu | Asp | Ala | Ala | Arg | Gln | Ala | Arg | Ala | Leu | Gly | Ala | Ala |
| | | | | 125 | | | | | 130 | | | | | 135 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Ala | Leu | Leu | Ala | Ala | Leu | Gly | Ala | Ala | Asn | Arg | Gly | Pro |
| | | | | 140 | | | | | 145 | | | | | 150 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Glu | Pro | Pro | Ala | Ala | Thr | Ala | Ser | Ala | Ala | Ser | Ala | Thr |
| | | | | 155 | | | | | 160 | | | | | 165 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Phe | Pro | Ala | Lys | Val | Leu | Gly | Leu | Arg | Val | Cys | Gly | Leu |
| | | | | 170 | | | | | 175 | | | | | 180 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Glu | Trp | Leu | Ser | Arg | Thr | Glu | Gly | Asp | Leu | Gly | Gln | Leu |
| | | | | 185 | | | | | 190 | | | | | 195 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Gly | Gly | Ser | Ala |
| | | | | 200 | |

<210> 4

<211> 21

<212> DNA

<213> Human

005280" EBT84960

<400> 4
ttcccagcct ctctttgctt t 21

<210> 5
<211> 22
<212> DNA
<213> Human

<400> 5
tcagacggag ttaccatgca ga 22

<210> 6
<211> 27
<212> DNA
<213> Human

<400> 6
tgccccgttc tcttaactct tggaccc 27

005230" EBT84960

68